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ABSTRACT OF THE DISCLOSURE

Layered proton exchange membrane and method for preparing the same. The layered proton exchange membrane comprises an organic/inorganic composite membrane and at exchange membrane wherein least one proton the organic/inorganic composite membrane comprises inorganic proton conductors and an organic base polymer. The method comprises mixing inorganic proton conductors with an organic base polymer to form an organic/inorganic composite membrane, and combining the organic/inorganic composite membrane with at least one proton exchange membrane.